

5

## ABSTRACT

The sensor arrangement comprises at least one transparent elevation, which is formed on the surface.

- 10 The transparent elevation is made of a first transparent material. At least one first facet of the transparent elevation defines a first angle with the surface. This first angle is larger than an angle at which a total reflection occurs at an interface of the first transparent material and air and is at the same time smaller at an angle at which a total reflection occurs at an interface of the first transparent material and the liquid. A light source is arranged for emitting an incident ray into a first direction passing through
- 15 the surface into the transparent elevation such that in presence of a liquid at the first facet an incident ray will be transmitted through the first facet, wherein in absence of a liquid the incident ray will be reflected due to a total reflection at the facets. Additionally, a light detector is provided for detecting the reflected ray.

20 (Fig. 4)